

## Question Paper Preview

**Question Paper Name:**

Geo Engineering and Geo Informatics 10th May 2018 Shift1

**Subject Name:**

Geo Engineering and Geo Informatics

**Duration:**

120

**Display Number Panel:**

**Group All Questions:**

Geo Engineering and Geo Informatics

Yes

No

**Question Number : 1 Question Id : 2203601681 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

For what value of k, the equations  $x + y + z = 3$ ,  $x + 2y + 3z = 4$ ,  $x + 4y + kz = 6$  will not have a unique solution?

**Options :**

1. 0

2. 5

3. 6

4. 7

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**Question Number : 2 Question Id : 2203601682 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

If  $A = \begin{bmatrix} 2 & 3 \\ x & y \end{bmatrix}$  and the eigen values of A are 4 and 8 then \_\_\_\_\_.

**Options :**

1.  $x = 0, y = 10$

2.  $x = 5, y = 8$

3.  $x = -3, y = 9$

4.  $x = -4, y = 10$

Question Number : 3 Question Id : 2203601683 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Let  $f(x) = |x|$  in the interval  $[-1, 1]$ . At the point  $x=0$ , the function  $f(x)$  is

Options :

1. Continuous and differentiable
2. Non-continuous and differentiable
3. Continuous and not differentiable
4. Neither continuous nor differentiable

Question Number : 4 Question Id : 2203601684 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

If  $\vec{r} = x\vec{i} + y\vec{j} + z\vec{k}$  and  $r = |\vec{r}|$  then  $\nabla^2\left(\frac{1}{r}\right) = \underline{\hspace{2cm}}$ .

Options :

1. 0
2.  $3x$
3.  $2x$
4.  $3(x + y + z)$

Question Number : 5 Question Id : 2203601685 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

The work done in moving a particle in the force field  $\vec{F} = 3x^2\vec{i} + (2xz - y)\vec{j} + z\vec{k}$  along the curve defined by  $x^2 = 4y, 3x^3 = 8z$  from  $x = 0$  to  $x = 2$  is

Options :

1. 0
2. 16

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3. 44

4. 8

Question Number : 6 Question Id : 2203601686 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

The only function that is analytic from the following is

Options :

1.  $f(z) = \sin z$

2.  $f(z) = \bar{z}$

3.  $f(z) = \text{imaginary}(z)$

4.  $f(z) = \text{Real}(iz)$

Question Number : 7 Question Id : 2203601687 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

The radius of convergence for the expansion of  $f(z) = \sin z$  about the point  $z=0$  is

Options :

1.  $|z| < \infty$

2.  $|z| < 1$

3.  $|z| > 1$

4.  $|z - 1| < 2$

Question Number : 8 Question Id : 2203601688 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Companies A, B and C produce 30%, 45% and 25% of the cars respectively. It is known that 2%, 3% and 2% of these cars produced from A, B, C are defective. What is the probability that a car purchased is defective?

Options :

1. 0.345

2. 0.0345

3. 0.245

4. 0.0245

Question Number : 9 Question Id : 2203601689 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

In case of Binomial distribution, which of the following is true?

Options :

1. Mean  $<$  Variance

2. Mean = Variance

3. Mean  $>$  Variance

4. Mean  $\times$  Variance = 1

Question Number : 10 Question Id : 2203601690 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Let X be a random variable with expectation of  $X = 10$  and the variance of  $X = 25$ .

The values of a and b respectively such that  $Y = aX - b$  has expectation 0 and variance 1 are

Options :

1.  $0, \frac{1}{5}$

2.  $\frac{1}{5}, 0$

3.  $\frac{1}{5}, 2$

4.  $2, \frac{1}{5}$

Slate is formed from

Options :

1. clay
2. sand
3. gravel
4. pebble

Relative hardness of minerals is measured using \_\_\_\_\_.

Options :

1. Richter Scale
2. Vector scale
3. Mohs' scale
4. Grey scale

The Earth's mantle is situated \_\_\_\_\_.

Options :

1. under the core
2. above the Lithosphere
3. above the crust
4. under the crust

What are the inner/terrestrial planets in the solar system?

Options :

1. Earth, Mars, Saturn and Neptune
2. Jupiter, Saturn, Neptune and Pluto
3. Venus, the Earth, Mars and Saturn
4. Mercury, Venus, Earth and Mars

The deep ocean floor is called as \_\_\_\_\_.

Options :

1. continental shelf
2. continental slope
3. abyssal plain
4. mid-Oceanic ridge

Which of the following are also called primary rocks?

Options :

1. Sedimentary rocks
2. Igneous rocks
3. Metamorphic rocks
4. Folded rocks

Identify the ascending order in terms of sea depth from the shore

Options :

1. Abyssal plain, shore line and continental shelf
2. Continental shelf, Continental slope and abyssal plain
3. Continental slope, shore line and abyssal plain
4. Continental slope, Continental shelf and abyssal plain

Question Number : 18 Question Id : 2203601698 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Plate boundaries which move apart from each other as a result of the formation of mid-ocean ridges are known as

Options :

1. convergent boundaries
2. divergent boundaries
3. transfer faults
4. subduction zones

Question Number : 19 Question Id : 2203601699 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Bathymetric profile is referred to as a map which depicts ocean \_\_\_\_\_.

Options :

1. heights
2. depths
3. lengths
4. widths

Which one of the following belongs to igneous group of rocks?

Options :

1. Clastic
2. Chemical
3. Organic
4. Plutonic

Which continent has the largest coastline?

Options :

1. Africa
2. Asia
3. Europe
4. Australia

The elevation of the aerial photographic exposure station above the datum is called

Options :

1. flying height
2. base height
3. principal height
4. focal height

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Question Number : 23 Question Id : 2203601703 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Which one of the following refers to the art and science of map making?

Options :

1. Cartography
2. Geography
3. Cryptography
4. Typography

Question Number : 24 Question Id : 2203601704 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

A contour is an imaginary line which joins the points of equal

Options :

1. elevation
2. rainfall
3. temperature
4. humidity

Question Number : 25 Question Id : 2203601705 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

UTM is based on \_\_\_\_\_ projection.

Options :

1. cylindrical
2. azimuthal
3. conical
4. polyconic

Question Number : 26 Question Id : 2203601706 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Which of the following is the correct expression for the scale of a vertical photograph with focal length of camera 'f', flying height (H) and average elevation of terrain 'h'?

Options :

1.  $S = f/(H - h)$

2.  $S = H/(f - h)$

3.  $S = (H - h)/f$

4.  $S = f*(H - h)$

Question Number : 27 Question Id : 2203601707 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

The scale of photography taken from a flying height of 3000 m, with 15 cm focal length camera is

Options :

1. 1:20,000

2. 1:10,000

3. 1:30,000

4. 1:15,000

Question Number : 28 Question Id : 2203601708 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

The amount of end lap in successive aerial photographs along the flight line is conventionally in the range of \_\_\_\_\_.

Options :

1. 5% to 15%

2. 20% to 30%

3. 55% to 65%

4. 35% to 45%

Question Number : 29 Question Id : 2203601709 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

An example of 1:25,000 scale Indian topographical sheet is

Options :

1. 56/N
2. 56/N/10
3. 56/N/10/NE
4. 56/N/NE

Question Number : 30 Question Id : 2203601710 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

The scale of the map divided into sections of  $4^\circ$  Latitude  $\times$   $4^\circ$  Longitude as per international series is

Options :

1. 1: 1000000
2. 1:100000
3. 1: 2500000
4. 1: 250000

Question Number : 31 Question Id : 2203601711 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

What is the contour interval of 1:50000 scale toposheet in plain areas?

Options :

1. 30 m
2. 20 m

3. 25 m

4. 15 m

Question Number : 32 Question Id : 2203601712 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Alidade is used in \_\_\_\_\_.

Options :

1. Tachometry

2. Plane Table survey

3. Chain survey

4. Compass survey

Question Number : 33 Question Id : 2203601713 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Geostationary satellites are placed at an altitude of \_\_\_\_\_.

Options :

1. 36000 km

2. 34000 km

3. 30000 km

4. 38000 km

Question Number : 34 Question Id : 2203601714 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

The ability to distinguish the finer variations of reflected or emitted radiation from different objects in a given spectral band is called \_\_\_\_\_.

Options :

1. radiometric resolution

2. spatial resolution
3. spectral resolution
4. temporal resolution

Question Number : 35 Question Id : 2203601715 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Which one of the following is not a part of cross track scanning system?

Options :

1. CCD
2. Electric motor
3. Mirror
4. Magnetic tape recorder

Question Number : 36 Question Id : 2203601716 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

The backscattered energy to the sensor does not depend on which of the following?

Options :

1. Dielectric constant
2. Surface Roughness
3. Type of land cover
4. Atmospheric scattering

Question Number : 37 Question Id : 2203601717 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Which one of the following is not a native format of a satellite digital image?

Options :

1. BIP

2. BSQ

3. BIL

4. JPEG

Question Number : 38 Question Id : 2203601718 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Which one of the following is a Landsat satellite sensor?

Options :

1. HRV

2. TM

3. MODIS

4. Aqua

Question Number : 39 Question Id : 2203601719 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Identification of a feature through the difference in its reflectance with respect to wavelength is called as \_\_\_\_\_.

Options :

1. spectral signature

2. reflectance

3. emittance

4. atmospheric window

Question Number : 40 Question Id : 2203601720 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Most of the manmade features can solely be identified by using which visual interpretation element?

Options :

1. Texture

2. Tone

3. Shape

4. Size

Question Number : 41 Question Id : 2203601721 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Polar orbiting satellites are meant for

Options :

1. Earth resources observation

2. communication

3. navigation

4. weather monitoring

Question Number : 42 Question Id : 2203601722 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Forest fire is monitored using which part of the electromagnetic radiation?

Options :

1. Blue

2. Green

3. Red

4. TIR

Question Number : 43 Question Id : 2203601723 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Healthy vegetation appears in \_\_\_\_\_ colour in the standard false colour composite.

Options :

1. Green

2. Blue

3. Red

4. Grey

Question Number : 44 Question Id : 2203601724 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

In NIR, plant leaf reflectance depends primarily on \_\_\_\_\_.

Options :

1. the pigments

2. internal cell structure

3. equivalent water content

4. shape of the leaf

Question Number : 45 Question Id : 2203601725 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Oceansat data are mainly useful in identifying \_\_\_\_\_.

Options :

1. water salinity

2. mangroves

3. potential fishing zones

4. ocean minerals

Question Number : 46 Question Id : 2203601726 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Acquired raw satellite image is in \_\_\_\_\_.

Options :

1. square format
2. parallelogram format
3. rectangle format
4. circular format

Question Number : 47 Question Id : 2203601727 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Cyan dye absorbs \_\_\_\_\_ component of the white light.

Options :

1. magenta
2. blue
3. green
4. red

Question Number : 48 Question Id : 2203601728 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Coherence of two electromagnetic waves takes place if their phase difference is \_\_\_\_\_.

Options :

1. constant in time
2. constant in space
3. constant in time and space
4. variable in time or space

Question Number : 49 Question Id : 2203601729 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

NDVI is \_\_\_\_\_.

Options :

1.  $(NIR - SWIR) / (NIR + SWIR)$

2.  $(NIR - R) / (NIR + R)$

3.  $NIR - R$

4.  $(NIR + R) / (NIR - R)$

Question Number : 50 Question Id : 2203601730 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Number of grey levels present in 10 bit data is \_\_\_\_\_.

Options :

1. 128

2. 256

3. 512

4. 1024

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Question Number : 51 Question Id : 2203601731 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Which one of the following is not an Indian remote sensing satellite?

Options :

1. IRS- 1A/1B

2. TES

3. Resourcesat -2 A

4. Envisat

Question Number : 52 Question Id : 2203601732 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Identify the Indian microwave satellite from the following

Options :

1. ALOS
2. RADARSAT-2
3. RISAT-1
4. ENVISAT

Question Number : 53 Question Id : 2203601733 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Which physical property of the object, a thermal sensor measures?

Options :

1. Reflection
2. Refraction
3. Emission
4. Absorption

Question Number : 54 Question Id : 2203601734 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

IFOV stands for \_\_\_\_\_.

Options :

1. Inter Face Over View
2. Instantaneous Field Of View
3. Inter Field Out View
4. Instrumentation Face Of View

Question Number : 55 Question Id : 2203601735 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Wavelength of Microwave portion is \_\_\_\_\_

Options :

1. 0.4- 6 m
2. 0.5 – 5  $\mu\text{m}$
3. 0.3 – 2 m
4. 1 mm – 1 m

Question Number : 56 Question Id : 2203601736 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

ERTS Stands for \_\_\_\_\_

Options :

1. Earth Receiving Temperature Satellite
2. Earth Resources Technology Satellite
3. Environment Resource Thermal Satellite
4. Environment Receiving Thermal Sensor

Question Number : 57 Question Id : 2203601737 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Landsat-1 MSS sensor has

Options :

1. 5 Bands
2. 6 Bands
3. 4 Bands
4. 10 Bands

Question Number : 58 Question Id : 2203601738 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Landsat 1 was launched in \_\_\_\_\_.

Options :

1. 1972
2. 1974
3. 1978
4. 2001

Question Number : 59 Question Id : 2203601739 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Which one of the following causes haze in the imagery?

Options :

1. Scattering
2. Absorption
3. Transmission
4. Reflectance

Question Number : 60 Question Id : 2203601740 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

On the infrared image, clear water appears in \_\_\_\_\_ color.

Options :

1. blue
2. black
3. white
4. grey

Question Number : 61 Question Id : 2203601741 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

IRS-IA was launched in the year \_\_\_\_\_.

Options :

1. 1986
2. 1988
3. 1989
4. 1990

Question Number : 62 Question Id : 2203601742 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

MSS stands for

Options :

1. Multi Spectral System
2. Multi Spectral Satellite
3. Minimum Space System
4. Multi Spectral Scanner

Question Number : 63 Question Id : 2203601743 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

When RGB is assigned to their respective RGB bands, then the resultant image is a

\_\_\_\_\_.

Options :

1. black and white composite
2. pseudo color composite
3. false color composite
4. true color composite

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Question Number : 64 Question Id : 2203601744 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

The \_\_\_\_\_ the backscattered intensity, the \_\_\_\_\_ is the surface being imaged.

Options :

1. higher, rougher
2. shorter, rougher
3. higher, Softer
4. wider, softer

Question Number : 65 Question Id : 2203601745 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

As per the Stefan-Boltzmann law, the total radiant heat energy emitted from a surface is proportional to the \_\_\_\_\_.

Options :

1. square of the absolute temperature
2. cube of the absolute temperature
3. 4<sup>th</sup> power of the absolute temperature
4. 5<sup>th</sup> power of the absolute temperature

Question Number : 66 Question Id : 2203601746 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Which of the following is not a stage of remote sensing data acquisition?

Options :

1. Propagation of energy through atmosphere
2. Energy interaction with Earth's Surface
3. Sensor characteristics

#### 4. Data product generation

Question Number : 67 Question Id : 2203601747 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

The percentage of sunlight within visible wavelength at Earth's surface is \_\_\_\_\_.

Options :

1. 25%
2. 30%
3. 43%
4. 48%

Question Number : 68 Question Id : 2203601748 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

The wavelengths at which EM radiations are partially or wholly transmitted through atmosphere are called \_\_\_\_\_.

Options :

1. atmospheric windows
2. absorption windows
3. scattering windows
4. reflection windows

Question Number : 69 Question Id : 2203601749 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

The refractive index of the ocean water \_\_\_\_\_.

Options :

1. increases with increase in salinity
2. increases with increase in temperature

3. decreases with increase in temperature

4. decreases with increase in salinity

Question Number : 70 Question Id : 2203601750 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

A perfect black body \_\_\_\_\_.

Options :

1. absorbs all the radiation of every wavelength

2. reflects all the radiation of every wavelength

3. absorbs half the radiation and reflects the other half of the radiation

4. neither reflects nor absorbs the radiation

Question Number : 71 Question Id : 2203601751 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Which part of the electromagnetic energy is directly related to sensing of heat?

Options :

1. Near Infrared

2. SWIR

3. TIR

4. Red

Question Number : 72 Question Id : 2203601752 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Rayleigh scattering is common in \_\_\_\_\_.

Options :

1. tiny particles that are smaller in diameter than the wavelength of the incident light

2. big particles that are larger in diameter than the wavelength of the incident light

3. particles that are similar in diameter to that of the wavelength of the incident light

4. a clean atmosphere without the presence of particulate matter

Question Number : 73 Question Id : 2203601753 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Read the two statements below and choose the correct answer from the four options

Statement A: Passive remote sensing uses Sun as a source of energy

Statement B: Active remote sensing uses its own source of energy

Options :

1. Only statement A is correct

2. Only statement B is correct

3. Both statement A and statement B are correct

4. Both statement A and statement B are wrong

Question Number : 74 Question Id : 2203601754 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

The near Infrared region ranges from

Options :

1. 0.3  $\mu\text{m}$  to 0.7  $\mu\text{m}$

2. 0.7  $\mu\text{m}$  to 1.3  $\mu\text{m}$

3. 0.5  $\mu\text{m}$  to 1.5  $\mu\text{m}$

4. 1 mm to 1 meter

Question Number : 75 Question Id : 2203601755 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

INSAT stands for \_\_\_\_\_.

Options :

1. Information Satellite Technology

2. Indian Satellite Technology

3. Indian National Satellite

4. International Satellite Technology

Question Number : 76 Question Id : 2203601756 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Which one of the following sensors is good for forest fire monitoring?

Options :

1. LISS IV

2. PAN

3. RBV

4. AVHRR

Question Number : 77 Question Id : 2203601757 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Buffering around a point feature creates \_\_\_\_\_ buffer zone.

Options :

1. square

2. trapezoidal

3. ellipsoidal

4. circular

Question Number : 78 Question Id : 2203601758 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Which one of the following is an open source database?

Options :

1. Oracle

2. MS-Excel

3. PostgreSQL

4. Lotus-1-2-3

Question Number : 79 Question Id : 2203601759 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Tuples are individual records in which of the following database structures?

Options :

1. Object-oriented

2. Relational

3. Hierarchical

4. Network

Question Number : 80 Question Id : 2203601760 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Which one of the following is not a network?

Options :

1. Road

2. Telecom line

3. Electricity line

4. Water table

Question Number : 81 Question Id : 2203601761 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Which one of the following is the data format of Arcview?

Options :

1. DWG

2. DXF

3. GIF

4. SHP

Question Number : 82 Question Id : 2203601762 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Viewshed analysis requires which one of the following pair of data sets?

Options :

1. A stream network and a watershed area

2. A point layer and a digital elevation model

3. A topographic map and a satellite image

4. A road network and a traffic data set

Question Number : 83 Question Id : 2203601763 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Tolerance is used in \_\_\_\_\_.

Options :

1. error removal

2. reclass

3. recode

4. overlay

Question Number : 84 Question Id : 2203601764 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Inheritance, polymorphism and instantiation are the properties of \_\_\_\_\_  
database.

Options :

1. network
2. relational
3. object-oriented
4. hierarchical

Question Number : 85 Question Id : 2203601765 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

What is Meta data?

Options :

1. meteorological data
2. contour data
3. data about data
4. oceanic data

Question Number : 86 Question Id : 2203601766 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Which of the following refers to explicit expression of the spatial relationships between features?

Options :

1. Topology
2. Interpolation
3. Kriging
4. Geocoding

Question Number : 87 Question Id : 2203601767 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Conversion of a vector file into square grids is called as \_\_\_\_\_

Options :

1. rasterization
2. vectorization
3. topology creation
4. spatial-randomization

Question Number : 88 Question Id : 2203601768 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Isoline map is \_\_\_\_\_.

Options :

1. an Atlas map
2. a contour map
3. a map containing different subjects
4. thematic map

Question Number : 89 Question Id : 2203601769 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

What is meant by record in a relational database?

Options :

1. One cell in table that represents spatial feature
2. Row in a table that represents spatial feature
3. Column in a table that represents spatial feature
4. Table that represents spatial feature

Question Number : 90 Question Id : 2203601770 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

The small polygons formed along the shared boundary of two input layers in overl operations are called

Options :

1. splits
2. slivers
3. intersections
4. buffer zones

Question Number : 91 Question Id : 2203601771 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Software developed by ESRI is \_\_\_\_\_.

Options :

1. ERDAS
2. ArcGIS
3. Geomedia
4. GRASS

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Question Number : 92 Question Id : 2203601772 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Vector data are ideal for

Options :

1. discrete features
2. continuous features
3. DEM
4. DTM

Question Number : 93 Question Id : 2203601773 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

The geographic coordinate system is defined by

Options :

1. points
2. latitudes and longitudes
3. lines
4. polygons

Question Number : 94 Question Id : 2203601774 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

What is a datum?

Options :

1. a mathematical model
2. a set of reference points, used for the measurement of heights and depths
3. a set of real world features projected with minimum distortion from a round earth to flat map.
4. a system of coordinates.

Question Number : 95 Question Id : 2203601775 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Which of the following is used to extract features and their attributes from one layer using a polygon from another as the boundary of the output?

Options :

1. Join
2. Merge
3. Union

4. Clip

Question Number : 96 Question Id : 2203601776 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Data that describes the characteristics of spatial features is called as \_\_\_\_\_.

Options :

1. functional data
2. nominal data
3. real data
4. attribute data

Question Number : 97 Question Id : 2203601777 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Which among these is an example of a polygon spatial data?

Options :

1. Well
2. Electric pole
3. Lake
4. Stream

Question Number : 98 Question Id : 2203601778 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Triangulated irregular network is a \_\_\_\_\_ based representation of a surface.

Options :

1. raster data
2. vector data

3. canal network

4. road network

Question Number : 99 Question Id : 2203601779 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

An overlay method that preserves only those features falling within the area extent common to input layers is called as \_\_\_\_\_.

Options :

1. symmetrical difference

2. identity

3. union

4. intersection

Question Number : 100 Question Id : 2203601780 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

What is the full form of TIGER?

Options :

1. Topographical Integrated Geocoding and Referencing

2. Topologically Integrated Geographic Encoding and Referencing

3. Topographical Integrated Geographical Reference

4. Topology Integrated Geocoded Raster

Question Number : 101 Question Id : 2203601781 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

The process of reshaping lines by using some mathematical functions such as splines is called \_\_\_\_\_.

Options :

1. line simplification

2. line smoothing

3. line shaping

4. line flattening

Question Number : 102 Question Id : 2203601782 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

What happens in union operation in vector data analysis?

Options :

Input layers are combined into a single, composite layer including the data from

1. all the input layers

2. Preserves only features that fall within the area extent

3. Preserves all features that fall within the common area of all the input layers

4. Removes all features in the input layers

Question Number : 103 Question Id : 2203601783 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Which one of the following is an open source GIS software?

Options :

1. ArcGIS

2. MapInfo

3. AutoCAD Map

4. QGIS

Question Number : 104 Question Id : 2203601784 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Object based model treats geographic space as a space populated by

Options :

1. Discrete objects

2. Collateral data

3. Undefinable objects

4. Inseparable spatial objects

Question Number : 105 Question Id : 2203601785 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

The whole-part relationship between two classes is described by \_\_\_\_\_.

Options :

1. Aggregation

2. Association

3. Composition

4. Instantiation

Question Number : 106 Question Id : 2203601786 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

\_\_\_\_\_ is a process by which a layer is distorted to allow it to be seamlessly joined to an adjacent geographic layer or imagery.

Options :

1. Georeferencing

2. Map projection

3. Rubber sheeting

4. Sliver

Question Number : 107 Question Id : 2203601787 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

1:10000 is an example of \_\_\_\_\_ scale.

Options :

1. nominal

2. ordinal

3. ratio

4. interval

Question Number : 108 Question Id : 2203601788 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Variation of simple choropleth map is called as

Options :

1. bar map

2. chart map

3. dasymetric map

4. isarithmic map

Question Number : 109 Question Id : 2203601789 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Highest porosity is present in

Options :

1. gravel

2. sand

3. silt

4. clay

Question Number : 110 Question Id : 2203601790 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Interpolation is made possible by a principle called

Options :

1. spatial autocorrelation

2. spatial auto-correction

3. thematic autocorrelation

4. thematic auto-correction

Question Number : 111 Question Id : 2203601791 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

'Near things are more related than distant things' is commonly referred to as \_\_\_\_\_  
first law of Geography.

Options :

1. Tobler's

2. Kepler's

3. Anthony's

4. Thompson's

Question Number : 112 Question Id : 2203601792 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Which one of the following can be better represented using a raster model?

Options :

1. Water distribution network

2. Cadastral maps

3. Hydrological modeling in a watershed

4. Road network

Question Number : 113 Question Id : 2203601793 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

The main information contained in 'spatial data' is \_\_\_\_\_.

Options :

1. logical information

2. numerical information

3. positional information

4. Boolean information

Question Number : 114 Question Id : 2203601794 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Measure of the resistance to the flow of a fluid through a rock is called \_\_\_\_\_.

Options :

1. Porosity

2. Osmosis

3. Grain size

4. Permeability

Question Number : 115 Question Id : 2203601795 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Relationship among the variables in database is shown in \_\_\_\_\_ diagram.

Options :

1. entry attribute Modeling

2. cartogram

3. scatter plot

4. wind rose

Question Number : 116 Question Id : 2203601796 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Which one of the following is not a function of GIS software?

Options :

1. Input

2. Store

3. Non transformation

4. Manage

Question Number : 117 Question Id : 2203601797 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Shape file structure does not store \_\_\_\_\_.

Options :

1. geometry

2. topographic information

3. attribute information

4. topological information

Question Number : 118 Question Id : 2203601798 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Observation wells are used for measuring \_\_\_\_\_.

Options :

1. Soil suction

2. Infiltration

3. soil evaporation

4. Ground water table fluctuations

Question Number : 119 Question Id : 2203601799 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Soil texture refers to the

Options :

1. grain size of the soil
2. amount of organic matter
3. tendency for the soil to split in clumps
4. amount of iron oxides

Question Number : 120 Question Id : 2203601800 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Which one of the following is not a part of preprocessing procedure in a GIS workflow?

Options :

1. Data collection
2. Format conversion
3. Data reduction
4. Error editing

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